

04-062 Sequence Listing
SEQUENCE LISTING

<110> TAKARA BIO INC.
<120> Composition for suppressing human Flt-3 function
<130> 04-062-PCTJP
<150> JP2003-350253
<151> 2003-10-09
<160> 40
<170> PatentIn version 3.3
<210> 1
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> A partial cDNA sequence of ATP-binding site.

<400> 1
aaggtaactag gatcaggtgc t 21

<210> 2
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Designated as SEQ1-S. "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 2
gguacuagga ucagggugcut t 21

<210> 3
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Designated as SEQ1-AS. "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 3
agcaccugau ccuaguacacct t 21

<210> 4
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> A partial cDNA sequence of TK domain.

<400> 4
aacaggaggatc tcaatccagg t 21

04-062 Sequence Listing

<210> 5
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Designated as SEQ2-S. "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 5
caggagucuc aauccaggut t 21

<210> 6
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Designated as SEQ2-AS. "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 6
accuggauug agacuccugt t 21

<210> 7
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> A partial cDNA sequence of FLT3/ITD domain.

<400> 7
aatatgaata tgatctcaaa t 21

<210> 8
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Designated as SEQ3-S. "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 8
uaugaauaaug aucucaaaut t 21

<210> 9
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Designated as SEQ3-AS. "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 9

04-062 Sequence Listing

auuuugagauc auauucauau t

21

<210> 10
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> A partial cDNA sequence of bcr/abl chimera domain.

<400> 10
aagcagagtt caaaaagcccu u

21

<210> 11
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 11
gcagaguuca aaaggccuut t

21

<210> 12
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 12
aaggccuuuu gaacucugct t

21

<210> 13
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer FLT11F for amprifying a gene encoding FLT3.

<400> 13
gcaattttagg tatgaaagcc agc

23

<210> 14
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer FLT12R for amprifying a gene encoding FLT3.

<400> 14
ctttcagcat tttgacggca acc

23

04-062 Sequence Listing

<210> 15
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer G1 for amprifying a gene encoding GAPDH.

<400> 15
caacagcctc aagatcatca gc 22

<210> 16
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer G2 for amprifying a gene encoding GAPDH.

<400> 16
ttcttagacgg caggtcaggt c 21

<210> 17
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> Expression cassette FLT3SI1F for expressing siRNA for ATP-binding domain. "the region of nucleotides 1 to 5 is BamHI restriction site - the region of nucleotides 26 to 34 is loop site - the region of nucleotides 54 to 59 is RNA polymerase III terminator

<400> 17
gatcccggtta ctaggatcag gtgcattcaa gagaaggcacc tgatcctagt accttttttg 60
gaaa 64

<210> 18
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> Expression cassette FLT3SI1R for expressing siRNA for ATP-binding domain. "the region of nucleotides 1 to 5 is HindIII restriction site - the region of nucleotides 10 to 15 is RNA polymerase III terminator site - the region of nucleotides 35 to 43 is loop

<400> 18
agctttcca aaaaaggtac taggatcagg tgcttctttt gaaaggcacct gatcctagta 60
ccgg 64

<210> 19

04-062 Sequence Listing

<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> Expression cassette FLT3CON1F for expressing control sequence.
"the region of nucleotides 1 to 5 is BamHI restriction site - the
region of nucleotides 26 to 34 is loop site - the region of
nucleotides 54 to 59 is RNA polymerase III terminator site"

<400> 19
gatcccgag tcgttagctgc agtatttcaa gagaatactg cagctacgac tcctttttg 60
gaaa 64

<210> 20
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> Expression cassette FLT3CON1R for expressing control sequence.
"the region of nucleotides 1 to 5 is HindIII restriction site -
the region of nucleotides 10 to 15 is RNA polymerase III
terminator site - the region of nucleotides 35 to 43 is loop

<400> 20
agctttcca aaaaaggagt cgtagctgca gtattctctt gaaatactgc agctacgact 60
ccgg 64

<210> 21
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> Expression cassette FLT3SI3F for expressing siRNA for FLT3/ITD
domain. "the region of nucleotides 1 to 5 is BamHI restriction
site - the region of nucleotides 26 to 34 is loop site - the
region of nucleotides 54 to 59 is RNA polymerase III terminator

<400> 21
gatccctatg aatatgatct caaatttcaa gagaatttga gatcatattc atatTTTG 60
gaaa 64

<210> 22
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> Expression cassette FLT3SI3R for expressing siRNA for FLT3/ITD
domain. "the region of nucleotides 1 to 5 is HindIII restriction
site - the region of nucleotides 10 to 15 is RNA polymerase III
terminator site - the region of nucleotides 35 to 43 is loop

04-062 Sequence Listing

<400> 22
agctttcca aaaaatatga atatgatctc aaattctttt gaaatttgag atcatattca 60
tagg 64

<210> 23
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> Expression cassette FLT3CON3F for expressing control sequence.
"the region of nucleotides 1 to 5 is BamHI restriction site - the
region of nucleotides 26 to 34 is loop site - the region of
nucleotides 54 to 59 is RNA polymerase III terminator site"

<400> 23
gatcccaata attgcttca aagatttcaa gagaatcttt gaagcaaattt atttttttg 60
gaaa 64

<210> 24
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> Expression cassette FLT3CON3R for expressing control sequence.
"the region of nucleotides 1 to 5 is HindIII restriction site -
the region of nucleotides 10 to 15 is RNA polymerase III
terminator site - the region of nucleotides 35 to 43 is loop

<400> 24
agctttcca aaaaaataa tttgcttcaa agattctttt gaaatctttg aagcaaatta 60
ttgg 64

<210> 25
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> 5' sequencing primer.

<400> 25
taatacgact cactatagg 20

<210> 26
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> 3' sequencing primer.

<400> 26

aggcgattaa gttgggta

<210> 27
<211> 144
<212> DNA
<213> Artificial Sequence

<220>
<223> Juxtamembrane domain.

<400> 27
tgtcacaagt acaaaaagca attaggtat gaaagccagc tacagatggt acaggtgacc 60
ggctcctcag ataatgagta cttctacgtt gatttcagag aatatgaata tgatctcaa 120
tgggagtttc caagagaaaa tttt 144

<210> 28
<211> 471
<212> DNA
<213> Artificial Sequence

<220>
<223> Tyrosine kinase domain.

<400> 28
acgcaacagc ttatggaatt agcaaaacag gagtctcaat ccaggttgcc gtcaaaatgc 60
tgaaagaaaa agcagacagc tctgaaagag aggactcat gtcagaactc aagatgatga 120
cccagctggg aagccacgag aatattgtga acctgctggg ggcgtgcaca ctgtcaggac 180
caatttactt gattttgaa tactgttgct atggtgatct tctcaactat ctaagaagta 240
aaagagaaaa atttcacagg acttggacag agatttcaa ggaacacaat ttcagtttt 300
acccacttt ccaatcacat ccaaattcca gcatgcctgg ttcaagagaa gttcagatac 360
acccggactc ggatcaaatc tcagggcttc atggaaattc atttcactct gaagatgaaa 420
ttgaatatga aaaccaaaaa aggctggaag aagaggagga cttgaatgtg c 471

<210> 29
<211> 517
<212> DNA
<213> Artificial Sequence

<220>
<223> ATP-binding domain.

<400> 29
gagtttggga agtactagg atcaggtgct tttggaaaag tgatgaacgc aacagcttat 60
ggaattagca aaacaggagt ctcaatccag gttgccgtca aaatgctgaa agaaaaagca 120
gacagctctg aaagagaggc actcatgtca gaactcaaga tgatgaccca gctggaaagc 180
cacgagaata ttgtgaacct gctggggcg tgcacactgt caggaccaat ttacttgatt 240
tttgaatact gttgctatgg tgatcttctc aactatctaa gaagtaaaag agaaaaattt 300

04-062 Sequence Listing

cacaggactt ggacagagat tttcaaggaa cacaatttca gtttttaccc cactttccaa 360
tcacatccaa attccagcat gcctggttca agagaagttc agatacaccc ggactcggat 420
caaatctcag ggcttcatgg gaattcattt cactctgaag atgaaattga atatgaaaac 480
caaaaaaggc tggaagaaga ggaggacttg aatgtgc 517

<210> 30
<211> 21
<212> DNA
<213> Artificial

<220>
<223> "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 30
gguuauguac aggaacgcat t 21

<210> 31
<211> 21
<212> DNA
<213> Artificial

<220>
<223> "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 31
ugcguuccug uacauaacct t 21

<210> 32
<211> 19
<212> DNA
<213> Artificial

<220>
<223> A partial cDNA sequence of ATP-binding domain.

<400> 32
ggtacttagga tcaggtgct 19

<210> 33
<211> 19
<212> RNA
<213> Artificial

<220>
<223> siRNA

<400> 33
gguacuagga ucaggugcu 19

<210> 34
<211> 19
<212> RNA

04-062 Sequence Listing

<213> Artificial

<220>

<223> siRNA

<400> 34

agcacccugau ccuaguacc

19

<210> 35

<211> 19

<212> DNA

<213> Artificial

<220>

<223> A partial cDNA sequence of TK domain.

<400> 35

caggagtctc aatccaggt

19

<210> 36

<211> 19

<212> RNA

<213> Artificial

<220>

<223> siRNA

<400> 36

caggagucuc aauccaggu

19

<210> 37

<211> 19

<212> RNA

<213> Artificial

<220>

<223> siRNA

<400> 37

accuggauug agacuccug

19

<210> 38

<211> 19

<212> DNA

<213> Artificial

<220>

<223> A partial cDNA sequence of FLT3/ITD domain.

<400> 38

tatgaatatg atctcaaat

19

<210> 39

<211> 19

<212> RNA

<213> Artificial

<220>

04-062 Sequence Listing

<223> siRNA

<400> 39

uaugaaaua aug aucucaaau

19

<210> 40

<211> 19

<212> RNA

<213> Artificial

<220>

<223> siRNA

<400> 40

auuugagauc auauucaua

19